

**Outstanding State Resource Water Use Designation
For 52 Basins or Stream Segments
in the Commonwealth**

A Supplement to the 2018 Triennial Review
Proposed Water Quality Standards
401 KAR 10:026 Section 3(2)

Introduction. The following is a compilation of information for fifty-two basins or stream segments proposed for the designation of Outstanding State Resource Water (OSRW). This brief provides the fact sheets required in 401 KAR 10:026 Section 4(1) for redesignation based on the presence of federally listed Threatened or Endangered species. All OSRW basins, segments, and water bodies are listed in 401 KAR 10:026 Table C, Surface Water Use Designations. Waters that are designated as OSRWs are expected to meet the criteria in 401 KAR 10:031 Section 8(2).

The length and bounds of each basin or segment are given in terms of a particular basin or by river miles. Additionally, each water body proposed for OSRW designation contains both the common name and Latinized scientific name for each federally listed species particular to a waterbody.

The following basins are proposed for OSRW use designation due to the presence of the Kentucky Arrow Darter (*Etheostoma spilotum*):

Big Double Creek Basin, Clay County. This basin is proposed for designation under the automatic inclusion clause of 401 KAR 10:031 Section 8(1)(a)3. Big Double Creek from its mouth to its confluence with the Left and Right Forks Big Double Creek and Left Fork Big Double Creek from its mouth to its headwaters were previously designated as OSRWs. Habitat, including water quality, supports the fish species, Kentucky arrow darter (*Etheostoma spilotum*). The federal listing status: Threatened. Please see the attached Map 1 for the relative location of the proposed OSRW Basin.

Big Laurel Creek Basin, Harlan County. This basin is proposed for designation under the automatic inclusion clause of 401 KAR 10:031 Section 8(1)(a)3. Habitat, including water quality, supports the fish species, Kentucky arrow darter (*Etheostoma spilotum*). The federal listing status: Threatened. Please see the attached Map 2 for the relative location of the proposed OSRW Basin.

Blue Hole Creek Basin, Clay County. This basin is proposed for designation under the automatic inclusion clause of 401 KAR 10:031 Section 8(1)(a)3. Habitat, including water quality, supports the fish species, Kentucky arrow darter (*Etheostoma spilotum*). The federal listing status:

Threatened. Please see the attached Map 3 for the relative location of the proposed OSRW Basin.

Bowen Creek Basin, Leslie County. This basin is proposed for designation under the automatic inclusion clause of 401 KAR 10:031 Section 8(1)(a)3. Habitat, including water quality, supports the fish species, Kentucky arrow darter (*Etheostoma spilotum*). The federal listing status: Threatened. Please see the attached Map 4 for the relative location of the proposed OSRW Basin.

Buckhorn Creek Basin, Knott County. This basin, above Emory Branch and below the reservoir on Fallenrock Branch, is proposed for designation under the automatic inclusion clause of 401 KAR 10:031 Section 8(1)(a)3. Habitat, including water quality, supports the fish species, Kentucky arrow darter (*Etheostoma spilotum*). The federal listing status: Threatened. Please see the attached Map 5 for the relative location of the proposed OSRW Basin.

Buffalo Creek Basin, Owsley County. This basin is proposed for designation under the automatic inclusion clause of 401 KAR 10:031 Section 8(1)(a)3. Buffalo Creek, from its mouth to the confluence with the Right Fork Buffalo Creek and Left Fork Buffalo Creek, Right Fork Buffalo Creek from its mouth to its headwaters, Laurel Fork from Cortland Fork to Big Branch, Joyce Fork from its mouth to its headwaters, Watches Fork from its mouth to its headwaters, Mike Branch from its mouth to its headwaters, and Bill Oak Branch from its mouth to its headwaters, were previously designated as OSRWs. Habitat, including water quality, supports the fish species, Kentucky arrow darter (*Etheostoma spilotum*). The federal listing status: Threatened. Please see the attached Map 6 for the relative location of the proposed OSRW Basin.

Bullskin Creek Basin, Clay and Leslie Counties. This basin is proposed for designation under the automatic inclusion clause of 401 KAR 10:031 Section 8(1)(a)3. Bullskin Creek from its mouth to its headwaters, was previously designated as an OSRW. Habitat, including water quality, supports the fish species, Kentucky arrow darter (*Etheostoma spilotum*). The federal listing status: Threatened. Please see the attached Map 7 for the relative location of the proposed OSRW Basin.

Clemons Fork Basin, Breathitt County. This basin is proposed for designation under the automatic inclusion clause of 401 KAR 10:031 Section 8(1)(a)3. Clemons Fork, Falling Rock Branch, Little Millseat Branch, Millseat Branch, Shelly Rock Fork, and John Carpenter Fork, from their mouths to their headwaters, were previously designated as OSRWs. Habitat, including water quality, supports the fish species, Kentucky arrow darter (*Etheostoma spilotum*). The federal listing status: Threatened. Please see the attached Map 8 for the relative location of the proposed OSRW Basin.

Coles Fork Basin, Breathitt and Knott Counties. This basin is proposed for designation under the automatic inclusion clause of 401 KAR 10:031 Section 8(1)(a)3. Coles Fork, from its mouth to its headwaters, was previously designated as an OSRW. Habitat, including water quality, supports the fish species, Kentucky arrow darter (*Etheostoma spilotum*). The federal listing status:

Threatened. Please see the attached Map 9 for the relative location of the proposed OSRW Basin.

Eli Fork Basin, Knott County. This basin is proposed for designation under the automatic inclusion clause of 401 KAR 10:031 Section 8(1)(a)3. Habitat, including water quality, supports the fish species, Kentucky arrow darter (*Etheostoma spilotum*). The federal listing status: Threatened. Please see the attached Map 10 for the relative location of the proposed OSRW Basin.

Elisha Creek Basin, Leslie County. This basin is proposed for designation under the automatic inclusion clause of 401 KAR 10:031 Section 8(1)(a)3. Elisha Creek from river miles 0.8 to 1.8, Little Middle Fork Elisha Creek, from its mouth to its headwaters, and Right Fork Elisha Creek from its mouth to its headwaters, were previously designated as OSRWs. Habitat, including water quality, supports the fish species, Kentucky arrow darter (*Etheostoma spilotum*). The federal listing status: Threatened. Please see the attached Map 11 for the relative location of the proposed OSRW Basin.

Frozen Creek Basin, Breathitt County. This basin, above and including (Lower) Negro Branch, is proposed for designation under the automatic inclusion clause of 401 KAR 10:031 Section 8(1)(a)3. Habitat, including water quality, supports the fish species, Kentucky arrow darter (*Etheostoma spilotum*). The federal listing status: Threatened. Please see the attached Map 12 for the relative location of the proposed OSRW Basin.

Gilberts Big Creek Basin, Clay and Leslie Counties. This basin is proposed for designation under the automatic inclusion clause of 401 KAR 10:031 Section 8(1)(a)3. Habitat, including water quality, supports the fish species, Kentucky arrow darter (*Etheostoma spilotum*). The federal listing status: Threatened. Please see the attached Map 13 for the relative location of the proposed OSRW Basin.

Granny Dismal Creek Basin, Jackson, Owsley and Lee Counties. This basin is proposed for designation under the automatic inclusion clause of 401 KAR 10:031 Section 8(1)(a)3. Habitat, including water quality, supports the fish species, Kentucky arrow darter (*Etheostoma spilotum*). The federal listing status: Threatened. Please see the attached Map 14 for the relative location of the proposed OSRW Basin.

Hell Creek Basin, Lee County. This basin, from its mouth to the reservoir above river mile 4.35, is proposed for designation under the automatic inclusion clause of 401 KAR 10:031 Section 8(1)(a)3. Habitat, including water quality, supports the fish species, Kentucky arrow darter (*Etheostoma spilotum*). The federal listing status: Threatened. Please see the attached Map 15 for the relative location of the proposed OSRW Basin.

Hell for Certain Creek Basin, Leslie County. This basin is proposed for designation under the automatic inclusion clause of 401 KAR 10:031 Section 8(1)(a)3. Hell for Certain Creek, from its mouth to Big Fork, was previously designated as an OSRW. Habitat, including water quality,

supports the fish species, Kentucky arrow darter (*Etheostoma spilotum*). The federal listing status: Threatened. Please see the attached Map 16 for the relative location of the proposed OSRW Basin.

Holly Creek Basin, Breathitt County. This basin is proposed for designation under the automatic inclusion clause of 401 KAR 10:031 Section 8(1)(a)3. Habitat, including water quality, supports the fish species, Kentucky arrow darter (*Etheostoma spilotum*). The federal listing status: Threatened. Please see the attached Map 17 for the relative location of the proposed OSRW Basin.

Horse Creek Basin, Clay and Laurel Counties. This basin, above Pigeon Roost Branch, is proposed for designation under the automatic inclusion clause of 401 KAR 10:031 Section 8(1)(a)3. Habitat, including water quality, supports the fish species, Kentucky arrow darter (*Etheostoma spilotum*). The federal listing status: Threatened. Please see the attached Map 18 for the relative location of the proposed OSRW Basin.

Hunting Creek Basin, Breathitt County. This basin is proposed for designation under the automatic inclusion clause of 401 KAR 10:031 Section 8(1)(a)3. Habitat, including water quality, supports the fish species, Kentucky arrow darter (*Etheostoma spilotum*). The federal listing status: Threatened. Please see the attached Map 19 for the relative location of the proposed OSRW Basin.

Jacks Creek Basin, Clay County. This basin is proposed for designation under the automatic inclusion clause of 401 KAR 10:031 Section 8(1)(a)3. Habitat, including water quality, supports the fish species, Kentucky arrow darter (*Etheostoma spilotum*). The federal listing status: Threatened. Please see the attached Map 20 for the relative location of the proposed OSRW Basin.

Katies Creek Basin, Clay County. This basin is proposed for designation under the automatic inclusion clause of 401 KAR 10:031 Section 8(1)(a)3. Katies Creek, from its mouth to its headwaters, was previously designated as an OSRW. Habitat, including water quality, supports the fish species, Kentucky arrow darter (*Etheostoma spilotum*). The federal listing status: Threatened. Please see the attached Map 21 for the relative location of the proposed OSRW Basin.

Laurel Creek Basin, Leslie County. This basin is proposed for designation under the automatic inclusion clause of 401 KAR 10:031 Section 8(1)(a)3. Habitat, including water quality, supports the fish species, Kentucky arrow darter (*Etheostoma spilotum*). The federal listing status: Threatened. Please see the attached Map 22 for the relative location of the proposed OSRW Basin.

Laurel Fork Quicksand Creek Basin, Knott County. This basin, above Patten Fork, is proposed for designation under the automatic inclusion clause of 401 KAR 10:031 Section 8(1)(a)3. Habitat, including water quality, supports the fish species, Kentucky arrow darter (*Etheostoma*

spilotum). The federal listing status: Threatened. Please see the attached Map 23 for the relative location of the proposed OSRW Basin.

Little Double Creek Basin, Clay County. This basin is proposed for designation under the automatic inclusion clause of 401 KAR 10:031 Section 8(1)(a)3. Habitat, including water quality, supports the fish species, Kentucky arrow darter (*Etheostoma spilotum*). The federal listing status: Threatened. Please see the attached Map 24 for the relative location of the proposed OSRW Basin.

Little Fork Basin, Lee and Wolfe Counties. This basin is proposed for designation under the automatic inclusion clause of 401 KAR 10:031 Section 8(1)(a)3. Habitat, including water quality, supports the fish species, Kentucky arrow darter (*Etheostoma spilotum*). The federal listing status: Threatened. Please see the attached Map 25 for the relative location of the proposed OSRW Basin.

Long Fork Basin, Clay County. This basin is proposed for designation under the automatic inclusion clause of 401 KAR 10:031 Section 8(1)(a)3. Habitat, including water quality, supports the fish species, Kentucky arrow darter (*Etheostoma spilotum*). The federal listing status: Threatened. Please see the attached Map 26 for the relative location of the proposed OSRW Basin.

Lower Buffalo Creek Basin, Lee and Owsley Counties. This basin is proposed for designation under the automatic inclusion clause of 401 KAR 10:031 Section 8(1)(a)3. Habitat, including water quality, supports the fish species, Kentucky arrow darter (*Etheostoma spilotum*). The federal listing status: Threatened. Please see the attached Map 27 for the relative location of the proposed OSRW Basin.

Middle Fork Quicksand Creek Basin, Knott County. This basin is proposed for designation under the automatic inclusion clause of 401 KAR 10:031 Section 8(1)(a)3. Habitat, including water quality, supports the fish species, Kentucky arrow darter (*Etheostoma spilotum*). The federal listing status: Threatened. Please see the attached Map 28 for the relative location of the proposed OSRW Basin.

Rockbridge Fork Basin, Wolfe County. This basin is proposed for designation under the automatic inclusion clause of 401 KAR 10:031 Section 8(1)(a)3. Habitat, including water quality, supports the fish species, Kentucky arrow darter (*Etheostoma spilotum*). The federal listing status: Threatened. Please see the attached Map 29 for the relative location of the proposed OSRW Basin.

Silver Creek Basin, Lee County. This basin is proposed for designation under the automatic inclusion clause of 401 KAR 10:031 Section 8(1)(a)3. Habitat, including water quality, supports the fish species, Kentucky arrow darter (*Etheostoma spilotum*). The federal listing status: Threatened. Please see the attached Map 30 for the relative location of the proposed OSRW Basin.

Spring Creek Basin, Clay County. This basin is proposed for designation under the automatic inclusion clause of 401 KAR 10:031 Section 8(1)(a)3. Habitat, including water quality, supports the fish species, Kentucky arrow darter (*Etheostoma spilotum*). The federal listing status: Threatened. Please see the attached Map 31 for the relative location of the proposed OSRW Basin.

Spring Fork Quicksand Creek Basin, Breathitt County. This basin, above and including the unnamed tributary at river mile 13.0, is proposed for designation under the automatic inclusion clause of 401 KAR 10:031 Section 8(1)(a)3. Habitat, including water quality, supports the fish species, Kentucky arrow darter (*Etheostoma spilotum*). The federal listing status: Threatened. Please see the attached Map 32 for the relative location of the proposed OSRW Basin.

Squabble Creek Basin, Perry County. This basin is proposed for designation under the automatic inclusion clause of 401 KAR 10:031 Section 8(1)(a)3. Habitat, including water quality, supports the fish species, Kentucky arrow darter (*Etheostoma spilotum*). The federal listing status: Threatened. Please see the attached Map 33 for the relative location of the proposed OSRW Basin.

Sugar Creek Basin, Clay and Leslie Counties. This basin is proposed for designation under the automatic inclusion clause of 401 KAR 10:031 Section 8(1)(a)3. Sugar Creek, from river miles 0.6 to 5.4, were previously designated as OSRWs. Habitat, including water quality, supports the fish species, Kentucky arrow darter (*Etheostoma spilotum*). The federal listing status: Threatened. Please see the attached Map 34 for the relative location of the proposed OSRW Basin.

Travis Creek Basin, Jackson County. This basin is proposed for designation under the automatic inclusion clause of 401 KAR 10:031 Section 8(1)(a)3. Habitat, including water quality, supports the fish species, Kentucky arrow darter (*Etheostoma spilotum*). The federal listing status: Threatened. Please see the attached Map 35 for the relative location of the proposed OSRW Basin.

Upper Bear Creek Basin, Clay County. This basin is proposed for designation under the automatic inclusion clause of 401 KAR 10:031 Section 8(1)(a)3. Habitat, including water quality, supports the fish species, Kentucky arrow darter (*Etheostoma spilotum*). The federal listing status: Threatened. Please see the attached Map 36 for the relative location of the proposed OSRW Basin.

Walker Creek Basin, Lee and Wolfe Counties. This basin is proposed for designation under the automatic inclusion clause of 401 KAR 10:031 Section 8(1)(a)3. Habitat, including water quality, supports the fish species, Kentucky arrow darter (*Etheostoma spilotum*). The federal listing status: Threatened. Please see the attached Map 37 for the relative location of the proposed OSRW Basin.

Wild Dog Creek Basin, Jackson and Owsley Counties. This basin is proposed for designation under the automatic inclusion clause of 401 KAR 10:031 Section 8(1)(a)3. Habitat, including water quality, supports the fish species, Kentucky arrow darter (*Etheostoma spilotum*). The federal listing status: Threatened. Please see the attached Map 38 for the relative location of the proposed OSRW Basin.

The following segments are proposed for OSRW use designation due to the presence of the Big Sandy Crayfish (*Cambarus callainus*):

Blackberry Creek, Pike County. This segment is 6.0 miles in length, extending from river mile 0.0 upstream to 6.0. It is proposed for designation under the automatic inclusion clause of 401 KAR 10:031 Section 8(1)(a)3. Habitat, including water quality, supports the freshwater Big Sandy crayfish (*Cambarus callainus*). The federal listing status: Threatened. Please see the attached Map 39 for the relative location of the proposed OSRW Segment.

Elkhorn Creek, Pike County. This segment is 11.85 miles in length, extending from river mile 0.0 upstream to 11.85. It is proposed for designation under the automatic inclusion clause of 401 KAR 10:031 Section 8(1)(a)3. Habitat, including water quality, supports the freshwater Big Sandy crayfish (*Cambarus callainus*). The federal listing status: Threatened. Please see the attached Map 40 for the relative location of the proposed OSRW Segment.

Knox Creek, Pike County. This segment is 7.95 miles in length, extending from river mile 0.0 upstream to 7.95. It is proposed for designation under the automatic inclusion clause of 401 KAR 10:031 Section 8(1)(a)3. Habitat, including water quality, supports the freshwater Big Sandy crayfish (*Cambarus callainus*). The federal listing status: Threatened. Please see the attached Map 41 for the relative location of the proposed OSRW Segment.

Levisa Fork, Floyd County. This segment is 6.5 miles in length, extending from river mile 46.95 upstream to 53.45. It is proposed for designation under the automatic inclusion clause of 401 KAR 10:031 Section 8(1)(a)3. Habitat, including water quality, supports the freshwater Big Sandy crayfish (*Cambarus callainus*). The federal listing status: Threatened. Please see the attached Map 42 for the relative location of the proposed OSRW Segment.

Levisa Fork, Pike County. This segment is 4.2 miles in length, extending from river mile 93.55 upstream to 97.75. It is proposed for designation under the automatic inclusion clause of 401 KAR 10:031 Section 8(1)(a)3. Habitat, including water quality, supports the freshwater Big Sandy crayfish (*Cambarus callainus*). The federal listing status: Threatened. Please see the attached Map 43 for the relative location of the proposed OSRW Segment.

Long Fork, Pike County. This segment is 7.55 miles in length, extending from river mile 0.00 upstream to 7.55. It is proposed for designation under the automatic inclusion clause of 401 KAR 10:031 Section 8(1)(a)3. Habitat, including water quality, supports the freshwater Big Sandy crayfish (*Cambarus callainus*). The federal listing status: Threatened. Please see the attached Map 44 for the relative location of the proposed OSRW Segment.

Peter Creek, Pike County. This segment is 5.8 miles in length, extending from river mile 0.0 upstream to 5.8. It is proposed for designation under the automatic inclusion clause of 401 KAR 10:031 Section 8(1)(a)3. Habitat, including water quality, supports the freshwater Big Sandy crayfish (*Cambarus callainus*). The federal listing status: Threatened. Please see the attached Map 45 for the relative location of the proposed OSRW Segment.

Russell Fork, Pike County. This segment is 15 miles in length, extending from river mile 0.0 upstream to 15.0. It is proposed for designation under the automatic inclusion clause of 401 KAR 10:031 Section 8(1)(a)3. Habitat, including water quality, supports the freshwater Big Sandy crayfish (*Cambarus callainus*). The federal listing status: Threatened. Please see the attached Map 46 for the relative location of the proposed OSRW Segment.

Shelby Creek, Pike County. This segment is 19.8 miles in length, extending from river mile 0.0 upstream to 19.8. It is proposed for designation under the automatic inclusion clause of 401 KAR 10:031 Section 8(1)(a)3. Habitat, including water quality, supports the freshwater Big Sandy crayfish (*Cambarus callainus*). The federal listing status: Threatened. Please see the attached Map 47 for the relative location of the proposed OSRW Segment.

Tug Fork, Martin County. This segment is 2.65 miles in length, extending from river mile 25.55 upstream to 28.2. It is proposed for designation under the automatic inclusion clause of 401 KAR 10:031 Section 8(1)(a)3. Habitat, including water quality, supports the freshwater Big Sandy crayfish (*Cambarus callainus*). The federal listing status: Threatened. Please see the attached Map 48 for the relative location of the proposed OSRW Segment.

Tug Fork, Pike County. This segment is 22.75 miles in length, extending from river mile 72.35 upstream to 95.1. It is proposed for designation under the automatic inclusion clause of 401 KAR 10:031 Section 8(1)(a)3. Habitat, including water quality, supports the freshwater Big Sandy crayfish (*Cambarus callainus*). The federal listing status: Threatened. Please see the attached Map 49 for the relative location of the proposed OSRW Segment.

The following segments are proposed for OSRW use designation due to the presence of the Fat Pocketbook (*Potamilus capax*), Sheepnose (*Plethobasus cyphus*), or Rabbitsfoot (*Quadrula cylindrical cylindrical*) mussels:

Clarks River, McCracken County. This segment is 2.5 miles in length, extending from river mile 0.0 upstream to 2.5. It is proposed for designation under the automatic inclusion clause of 401 KAR 10:031 Section 8(1)(a)3. Habitat, including water quality, supports the freshwater Fat Pocketbook mussel (*Potamilus capax*). The federal listing status: Endangered. Please see the attached Map 50 for the relative location of the proposed OSRW Segment.

Ohio River, Hancock County. This segment is 1.1 miles in length, extending from river mile 736 upstream to 734.9. It is proposed for designation under the automatic inclusion clause of 401 KAR 10:031 Section 8(1)(a)3. Habitat, including water quality, supports the freshwater

Sheepnose mussel (*Plethobasus cyphus*) and Rabbitsfoot mussel (*Quadrula cylindrical cylindrical*). The federal listing status: Endangered (Sheepnose) and Threatened (Rabbitsfoot). Please see the attached Map 51 for the relative location of the proposed OSRW Segment.

Tennessee River, McCracken County. This segment is 3.1 miles in length, extending from river mile 1.1 upstream to 4.2. It is proposed for designation under the automatic inclusion clause of 401 KAR 10:031 Section 8(1)(a)3. Habitat, including water quality, supports the freshwater Sheepnose mussel (*Plethobasus cyphus*). The federal listing status: Endangered. Please see the attached Map 52 for the relative location of the proposed OSRW Segment.

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